```
                                 (((((((..((((.......)))).(((((.......)))))).....(((((.......)
chr-7.trna189-iMet-CAT           AUCAGAGUGUCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAAGAUCGAAAC 60
chr-2.trna41-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGAGCCCAUAACCCACAGGUCCUAGGAUCAAAAC 60
chr-8.trna60-iMet-CAT            AUCAGAGUGGCGCAGCGAAAGUGUGGUGGGCCCAUAACCCACAGGUUCCAGGAUCAAAAC 60
chr-11.trna39-iMet-CAT           AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCUCAUAACUCACAAGUCCCAGGAUCGAAAC 60
chr-12.trna85-iMet-CAT           AUCAAAGUGGCGUAGCGGAAGCGUGGUGGGCCCAUAACCCACAUGUCCCAGGAUCGAAAC 60
chr-12.trna91-iMet-CAT           AUCAAAGUGGCGUAGCGGAAGCGUGGUGGGCCCAUAACCCACAUGUCCCAGGAUCGAAAC 60
chr-12.trna95-iMet-CAT           AUCAAAGUGGCGUAGCGGAAGCGUGGUGGGCCCAUAACCCACAUGUCCCAGGAUUGAAAC 60
chr-4.trna31-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAUGUCCCAGGAUCGAAAC 60
chr-4.trna19-iMet-CAT            AUCGGAGUGGUGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna25-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna40-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna42-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna46-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna57-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna59-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-4.trna44-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCUAGGAUCGAAAC 60
chr-14.trna44-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCCCAGGAUCAAAAC 60
chr-2.trna147-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAAGAUCGAAAC 60
chr-4.trna27-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAAGAUCGAAAC 60
chr-12.trna87-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-2.trna18-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-3.trna57-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-3.trna146-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna21-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna93-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna220-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna164-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-14.trna48-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna97-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna48-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna52-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna55-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-11.trna13-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna89-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-10.trna136-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-9.trna261-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-9.trna260-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna115-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
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chr-9.trna255-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna117-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna130-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-8.trna154-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-6.trna107-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-7.trna91-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-7.trna135-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna37-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCUACAGGUCCCAGGAUCGAAAC 60
chr-1.trna277-iMet-CAT           AUCAGAGUAGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna29-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-4.trna33-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna173-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna253-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-4.trna138-iMet-CAT           AUCAGAGUGGCGCAGCGAAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-6.trna32-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCAAAAC 60
chr-12.trna83-iMet-CAT           AUCAAAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCAAAAC 60
chr-10.trna268-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCAAAAC 60
chr-8.trna8-iMet-CAT             AUCAGAGUGGCGCAACGGAAGCGUGGUGGGCCCAUAAUCCACAGGUCCCAGGAUCGAAAC 60
chr-7.trna11-iMet-CAT            AUCAAAGUGGCGCAGCGGAAGCGUGGUGGACCCAUAACCCAUAGGUCCCAGGAUCGAAAC 60
chr-11.trna44-iMet-CAT           AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAU 60
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chr-1.trna261-iMet-CAT           AUUAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCUUAGGAUCAAAAC 60
chr-11.trna25-iMet-CAT           AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCUCAAGAUCGAAAC 60
chr-5.trna211-iMet-CAT           AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-11.trna31-iMet-CAT           AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-15.trna5-iMet-CAT            AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 60
chr-12.trna209-iMet-CAT          AUCAGAGUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUCAAAAC 60
chr-11.trna24-iMet-CAT           AUCAGAGUGGCGCAGUGUAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAAGAUCGAAAC 60
chr-11.trna35-iMet-CAT           AUCAGACUGGCGCAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-4.trna35-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUUGAAAC 60
chr-9.trna45-iMet-CAT            AUUAGAGUGGUGCAGCGGAAGUGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUUGAAAC 60
chr-4.trna7-iMet-CAT             AUCAGAGUGGCGCAGCGGAAGUGUGGUGGGCCCAUAACCCACAGGUCUCAGGAUCGAAAC 60
chr-12.trna191-iMet-CAT          AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCUCAGGAUCGAAAC 60
chr-4.trna23-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGGGUGGUGGGCCCAUAACCCACAUGUCCUAGGAUCGAAAC 60
chr-14.trna46-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUUCCAGGAUCGAAAC 60
chr-16.trna100-iMet-CAT          AUCAAAGUGGUGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUUGAAAC 60
chr-12.trna99-iMet-CAT           AUCAAAGUGGUGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCCCAGGAUUGAAAC 60
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chr-9.trna259-iMet-CAT           AUCAGAGUGGCGCAGCGGAAGCGU-GUGGGCCCAUAACCCACAGGUCCCAGGAUCGAAAC 59
chr-4.trna18-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUAGGCCCAUAACACACAGGUCCCAGGAUCAAAAC 60
chr-4.trna131-iMet-CAT           AUUAGAGUGGCGUAAUGGAAGCGUGGUGGGCCCAUAACCUACAGAUCCCAGGAUCAAAAC 60
chr-2.trna51-iMet-CAT            AACAAAGUGACGCAGCGGAAGCAUGGUGGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-7.trna70-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCAUAGGUCC-CAGAUCAAAAC 59
chr-3.trna56-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGUGGGCCCAUAACCCACAGGUCC-AGGAUCAAAAC 59
chr-13.trna356-iMet-CAT          AUCAGAGUGGCGCAGCAGAAGCGUGGUGGGCCCAUAACCC-CAGGUCCCAGGAUUGAAAC 59
chr-11.trna29-iMet-CAT           AUCAGAGUGGCGUAGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCAUAGGAUUGAAAC 60
chr-4.trna50-iMet-CAT            AUCAGAGUGGCGUUGUGGAAGCGUGGUGGGCCCAUAACCCACAGGUCACAGGAUUGAAAC 60
chr-11.trna28-iMet-CAT           AUUAGAGCGGCGUAGUGGAAGUGUGGUGGGCCCAUAACGCAUAGGUCCUAGGAUCGAAAC 60
chr-11.trna33-iMet-CAT           AUCAGAGUGGCGUAGUGGAAGCGUGGUUGGCCCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-11.trna37-iMet-CAT           AUCAGAGUGGCGUAGUGGAAGCGUGGUUGGCUCAUAACCCACAGGUCCUAGGAUCGAAAC 60
chr-8.trna10-iMet-CAT            AUCAGAGUGGCGCAGCGGAAGCGUGGU--GCCCAUAACCCACAGGUCCCAGGAUCGAAAC 58
chr-6.trna41-iMet-CAT            AUGAGAGUGGUGCAGUGGAAGUGUGGUGGGCCCAUAACACACAGGUCCCAGGAUCGAAAC 60
chr-9.trna121-iMet-CAT           AUCAAAGUGGCACAGCAGAAGCGUGGUGGGCUCAUAACCCACAGGUCCCAGGAUUGAAAC 60
chr-11.trna20-iMet-CAT           AUCAGAGUGGUGUAGUGGAAGCGUGGUAGGCCCAUAACCCACAGGUCCCAAGAUCAAAAC 60
chr-12.trna101-iMet-CAT          AUCAAAGUGGCGCAGCGGAAGUGUGGUGGGCCCAUAACCCACGGGUCCAAGGAUUGAAAC 60
chr-16.trna102-iMet-CAT          AUCAAAGUGGCGCAGCGGAAGUGUGGUGGGCCCAUAACCCACGGGUCCAAGGAUUGAAAC 60
                                 .........10........20........30........40........50.........
                                 ))))))))))).
chr-7.trna189-iMet-CAT           CUGGCUCUAAUA 72
chr-2.trna41-iMet-CAT            CUGGCUCUGAUA 72
chr-8.trna60-iMet-CAT            UUGGCUCUGAUA 72
chr-11.trna39-iMet-CAT           UUGACUCUGAUA 72
chr-12.trna85-iMet-CAT           CUGGCUUUGAUA 72
chr-12.trna91-iMet-CAT           CUGGCUUUGAUA 72
chr-12.trna95-iMet-CAT           CUGGCUUUGAUA 72
chr-4.trna31-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna19-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna25-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna40-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna42-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna46-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna57-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna59-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna44-iMet-CAT            CUGGCUCUGAUA 72
chr-14.trna44-iMet-CAT           CUGGCUCUGAUA 72
chr-2.trna147-iMet-CAT           UUGGCUUUGAUA 72
chr-4.trna27-iMet-CAT            UUGGCUCUGAUA 72
chr-12.trna87-iMet-CAT           CUGACUUUGAUA 72
chr-2.trna18-iMet-CAT            CUGGCUCUGAUA 72
chr-3.trna57-iMet-CAT            CUGGCUCUGAUA 72
chr-3.trna146-iMet-CAT           CUGGCUCUGAUA 72
chr-4.trna21-iMet-CAT            CUGGCUCUGAUA 72
chr-12.trna93-iMet-CAT           CUGGCUUUGAUA 72
chr-12.trna220-iMet-CAT          CUGGCUCUGAUA 72
chr-12.trna164-iMet-CAT          CUGGCUCUGAUA 72
chr-14.trna48-iMet-CAT           CUGGCUCUGAUA 72
chr-12.trna97-iMet-CAT           CUGGCUUUGAUA 72
chr-4.trna48-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna52-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna55-iMet-CAT            CUGGCUCUGAUA 72
chr-11.trna13-iMet-CAT           CUGGCUCUGAUA 72
chr-12.trna89-iMet-CAT           CUGGCUUUGAUA 72
chr-10.trna136-iMet-CAT          CUGGCUCUGAUA 72
chr-9.trna261-iMet-CAT           CUGGCUCUGAUA 72
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chr-9.trna257-iMet-CAT           CUGGCUCUGAUA 72
chr-9.trna255-iMet-CAT           CUGGCUCUGAUA 72
chr-4.trna117-iMet-CAT           CUGGCUCUGAUA 72
chr-4.trna130-iMet-CAT           CUGGCUCUGAUA 72
chr-8.trna154-iMet-CAT           CUGGCUCUGAUA 72
chr-6.trna107-iMet-CAT           CUGGCUCUGAUA 72
chr-7.trna91-iMet-CAT            CUGGCUCUGAUA 72
chr-7.trna135-iMet-CAT           CUGGCUUUGAUA 72
chr-4.trna37-iMet-CAT            UUGGCUCUGAUA 72
chr-1.trna277-iMet-CAT           CUGGCUCUGAUA 72
chr-4.trna29-iMet-CAT            UUGGCUCUGAUA 72
chr-4.trna33-iMet-CAT            UUGGCUCUGAUA 72
chr-12.trna173-iMet-CAT          UUGGCUUUGAUA 72
chr-12.trna253-iMet-CAT          UUGGCUCUGAUA 72
chr-4.trna138-iMet-CAT           CUGGCUCUGAUA 72
chr-6.trna32-iMet-CAT            CUGGCUCUGAUA 72
chr-12.trna83-iMet-CAT           CUGGCUUUGAUA 72
chr-10.trna268-iMet-CAT          CUGGCUCUGAUA 72
chr-8.trna8-iMet-CAT             CUGGCUCUGAUA 72
chr-7.trna11-iMet-CAT            CUGGCUUUGAUA 72
chr-11.trna44-iMet-CAT           CUGGCUCUGAUG 72
chr-1.trna262-iMet-CAT           CUGGCUCUGAUA 72
chr-1.trna261-iMet-CAT           CUGGCUCUGAUA 72
chr-11.trna25-iMet-CAT           UUGGCUCUGAUA 72
chr-5.trna211-iMet-CAT           CUGGCUCUGAUA 72
chr-11.trna31-iMet-CAT           CUGGCUUUGAUA 72
chr-15.trna5-iMet-CAT            CUGGCUCUGAUA 72
chr-12.trna209-iMet-CAT          CUGGCUCUGAUA 72
chr-11.trna24-iMet-CAT           UUGGCUCUGAUA 72
chr-11.trna35-iMet-CAT           CUGGCUUUGAUA 72
chr-4.trna35-iMet-CAT            CUGGCUCUGAUA 72
chr-9.trna45-iMet-CAT            CUGGCUCUGAUA 72
chr-4.trna7-iMet-CAT             CUGGCUCUGAUA 72
chr-12.trna191-iMet-CAT          CUGGCUCUGAUA 72
chr-4.trna23-iMet-CAT            CUAGCUCUGAUA 72
chr-14.trna46-iMet-CAT           CUGGCUCUAAUA 72
chr-16.trna100-iMet-CAT          UUGGCUUUGAUC 72
chr-12.trna99-iMet-CAT           UUGGCUUUGAUC 72
chr-11.trna19-iMet-CAT           UUGGCUUUGAUA 72
chr-9.trna259-iMet-CAT           CUGGCUCUGAUA 71
chr-4.trna18-iMet-CAT            CUGGCUUUGAUA 72
chr-4.trna131-iMet-CAT           UUCGCUCUGAUA 72
chr-2.trna51-iMet-CAT            CUGGCUUUGAUA 72
chr-7.trna70-iMet-CAT            CUGGCUCUGAUA 71
chr-3.trna56-iMet-CAT            UUGGCUCUGAUA 71
chr-13.trna356-iMet-CAT          CUGGCUCUGAUA 71
chr-11.trna29-iMet-CAT           UUGGCUUUGAUA 72
chr-4.trna50-iMet-CAT            CUGGCUCUGAUA 72
chr-11.trna28-iMet-CAT           CUGGCUCUAAUA 72
chr-11.trna33-iMet-CAT           UUGGGUUUGAUA 72
chr-11.trna37-iMet-CAT           UUGGGUUUGAUA 72
chr-8.trna10-iMet-CAT            CUGGCUCUGAUA 70
chr-6.trna41-iMet-CAT            UUGGCUUUGAUA 72
chr-9.trna121-iMet-CAT           UUGGCUCUAAUA 72
chr-11.trna20-iMet-CAT           CUGGCUCUAAUA 72
chr-12.trna101-iMet-CAT          CUGGCUUUUAUA 72
chr-16.trna102-iMet-CAT          CUGGCUUUUAUA 72
                                 .........70.
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